



# Grade 2 Mathematics

## A Year at a Glance

English



Numerical Relationships	Operations	Measurement	Geometry	Data Analysis, Statistics, and Probability	Patterns, Functions, and Algebra
<p><b>Whole Numbers:</b></p> <ul style="list-style-type: none"> <li>★ Read, write, and compare numbers through hundreds; <i>identify place value of digits written in numbers</i></li> <li>★ <i>Name numbers in a variety of ways</i></li> <li>★ <i>Trade ones, tens, and hundreds using concrete materials</i></li> <li>★ Round through tens</li> <li>★ Identify ordinal positions through twentieth</li> <li>★ Count by twos, fives, and tens</li> <li>★ Group objects by threes and fours</li> <li>★ Recognize even and odd numbers</li> <li>★ <i>Model different subtraction situations</i></li> <li>★ <i>Explore the relationship between addition and multiplication</i></li> </ul> <p><b>Fractions:</b></p> <ul style="list-style-type: none"> <li>★ Identify a set and/or region that represents fractions for one-half, one-third, one-fourth, one-eighth, and one-tenth and write fraction</li> </ul>	<p><b>Estimation:</b></p> <ul style="list-style-type: none"> <li>★ Use whole numbers to find sums and differences</li> </ul> <p><b>Procedures for Computation:</b></p> <ul style="list-style-type: none"> <li>★ Demonstrate the inverse relationship between addition and subtraction</li> <li>★ Add and subtract whole numbers whose sum is 99 or less</li> <li>★ <i>Add and subtract tens and ones using a hundreds chart or a number line</i></li> <li>★ Create and solve one-step addition and subtraction problems using data</li> <li>★ <i>Use multiples and arrays to solve problems</i></li> <li>★ <i>Use models to explore division</i></li> <li>★ <i>Solve real-life problems with fractions using concrete materials</i></li> <li>★ Recall basic addition and subtraction facts</li> </ul>	<p><b>Customary and Metric Units:</b></p> <ul style="list-style-type: none"> <li>★ Count and compare coins to \$2.00 (\$5.00) and trade pennies for nickels, dimes, and quarters; recognize cent symbol, dollar symbol, and decimal point</li> <li>★ <i>Estimate and measure using nonstandard units</i></li> <li>★ Estimate and measure to the nearest inch, nearest centimeter, feet and meters</li> <li>★ Estimate and measure weight/mass (pounds and kilograms)</li> <li>★ Tell and write time to the quarter hour</li> <li>★ <i>Estimate, measure, and compare metric and U.S. Customary units for measuring liquid volume</i></li> <li>★ Read calendars</li> <li>★ <i>Read a Fahrenheit thermometer</i></li> <li>★ Measure perimeter of a polygon</li> <li>★ Estimate and count number of square units to determine area</li> <li>★ Estimate and count number of cubes to determine volume</li> </ul>	<p><b>Identify, Classify, and Transform Shapes:</b></p> <ul style="list-style-type: none"> <li>★ <i>Identify and sort triangles, squares, circles, and rectangles</i></li> <li>★ Identify, describe, and sort cubes, rectangular solids (prisms), square pyramids, spheres, cylinders, cones according to faces, edges, and corners</li> <li>★ Compare and contrast plane and solid geometric figures (circle/sphere, circle/cone, square/cube, rectangle/rectangular solid)</li> <li>★ <i>Identify lines of symmetry and create symmetrical figures</i></li> <li>★ <i>Identify congruent shapes using concrete materials</i></li> </ul>	<p><b>Collect, Organize, Analyze Data:</b></p> <ul style="list-style-type: none"> <li>★ <i>Collect and sort data</i></li> <li>★ Read, construct, and interpret simple bar graphs, picture graphs, charts, and schedules</li> </ul> <p><b>Probability:</b></p> <ul style="list-style-type: none"> <li>★ <i>Conduct experiments and record data; make predictions using the data</i></li> </ul>	<p><b>Patterns:</b></p> <ul style="list-style-type: none"> <li>★ Identify, extend, and create patterns using numbers, concrete objects, and pictures</li> <li>★ <i>Complete a sequence of consecutive numbers to 999</i></li> <li>★ <i>Count forward by twos, fives, tens, and hundreds</i></li> <li>★ <i>Count backward by tens from 100</i></li> </ul> <p><b>Functions:</b></p> <ul style="list-style-type: none"> <li>★ Find missing addends and subtrahends</li> <li>★ <i>Find simple addition and subtraction function rules given input and output data</i></li> </ul>